



6AS8

DIODE-SHARP-CUTOFF PENTODE

9-PIN MINIATURE TYPE

6AS8

GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:

Voltage 6.3 ac or dc volts
Current 0.45 amp

Direct Interelectrode Capacitances (Approx.):*

Diode Unit:

Plate to heater and cathode and
internal shield 3.0 μf

Pentode Unit:

Grid No.1 to plate 0.04 max. μf
Input 7 μf
Output 2.2 μf
Pentode grid to diode plate 0.005 max. μf
Pentode plate to diode cathode 0.15 max. μf
Pentode plate to diode plate 0.10 max. μf

Characteristics, Class A1:

Plate-Supply Voltage 200 volts
Grid No.3 Connected to cathode at socket
Grid-No.2 Supply Voltage 150 volts
Cathode-Bias Resistor 180 ohms
Plate Resistance (Approx.) 300000 ohms
Transconductance 6200 μmhos
Grid-No.1 Bias (Approx.) for Plate
Current of 10 μamp -8 volts
Plate Current 9.5 ma
Grid-No.2 Current 3 ma

Mechanical:

Mounting Position Any
Maximum Overall Length 2-3/16"
Maximum Seated Length 1-15/16"
Length, Base Seat to Bulb Top
(Excluding Tip) 1-9/16" ± 3/32"
Maximum Diameter 7/8"
Bulb T-6-1/2
Base Small-Button Noval 9-Pin (JETEC No.E9-1)
Basing Designation for BOTTOM VIEW 9DS

- Pin 1 - Pentode Grid No.2
Pin 2 - Pentode Grid No.1
Pin 3 - Pentode Cathode
Pin 4 - Heater
Pin 5 - Heater
Pin 6 - Diode Plate
Pin 7 - Pentode Grid No.3, Int.Shield
Pin 8 - Diode Cathode
Pin 9 - Pentode Plate



* With no external shield.

MAY 3, 1954

TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

TENTATIVE DATA

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DIODE—SHARP-CUTOFF PENTODE

PENTODE UNIT—Class A₁ Amplifier

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE	300 max. volts
GRID-No.3 (SUPPRESSOR) VOLTAGE	0 max. volts
GRID-No.2 SUPPLY VOLTAGE	300 max. volts
GRID-No.2 (SCREEN) VOLTAGE	See Rating Curve at front of this Section

GRID-No.1 (CONTROL-GRID) VOLTAGE:

Positive bias value	0 max. volts
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PLATE DISSIPATION	2.5 max. watts
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GRID-No.2 INPUT	0.5 max. watt
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PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode	200 max. volts
Heater positive with respect to cathode	200 [•] max. volts

Maximum Circuit Values (For maximum rated conditions):

Grid-No.1-Circuit Resistance:

For cathode-bias operation	1.0 max. megohm
For fixed-bias operation	0.25 max. megohm

DIODE UNIT

Maximum Ratings, Design-Center Values:

PEAK INVERSE PLATE VOLTAGE	330 max. volts
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PEAK PLATE CURRENT	50 max. ma
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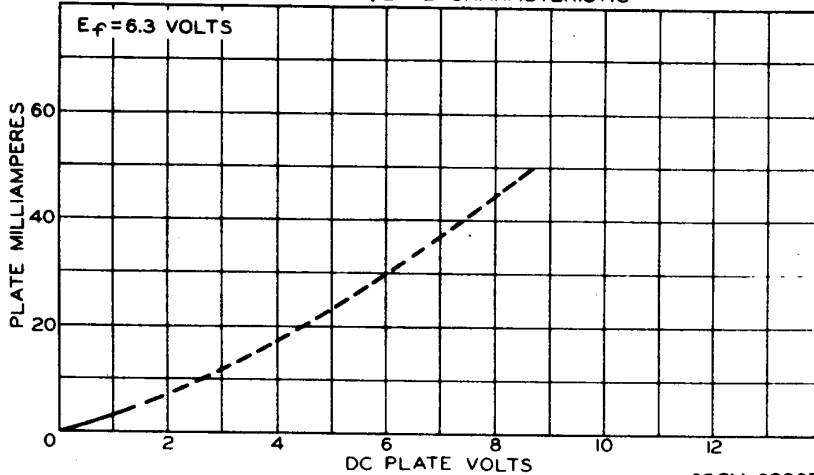
DC PLATE CURRENT	5 max. ma
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PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode	200 max. volts
Heater positive with respect to cathode	200 [•] max. volts

[•] The dc component must not exceed 100 volts.

AVERAGE PLATE CHARACTERISTIC



92CM-8236T

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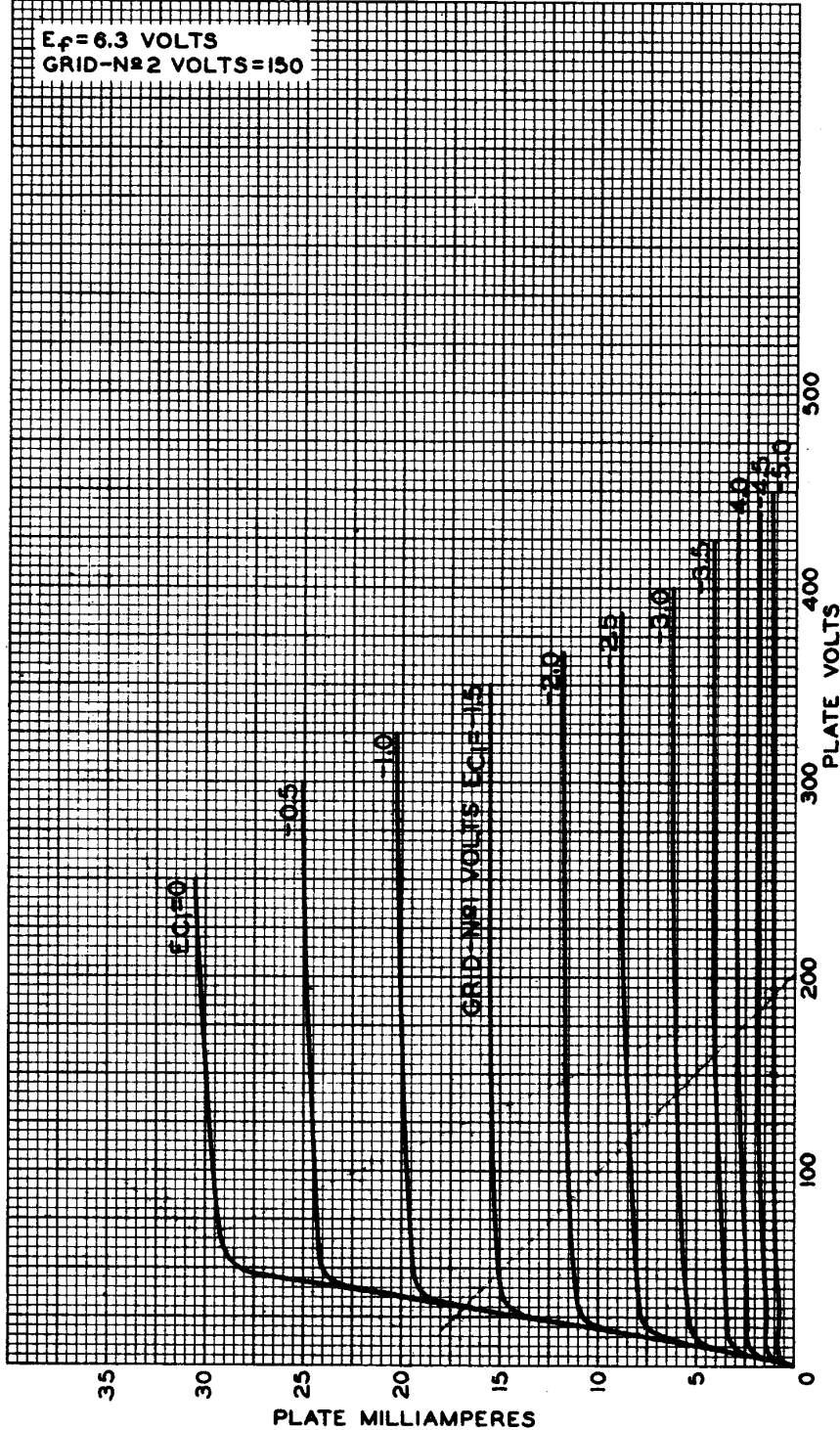
TENTATIVE DATA



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AVERAGE PLATE CHARACTERISTICS PENTODE UNIT



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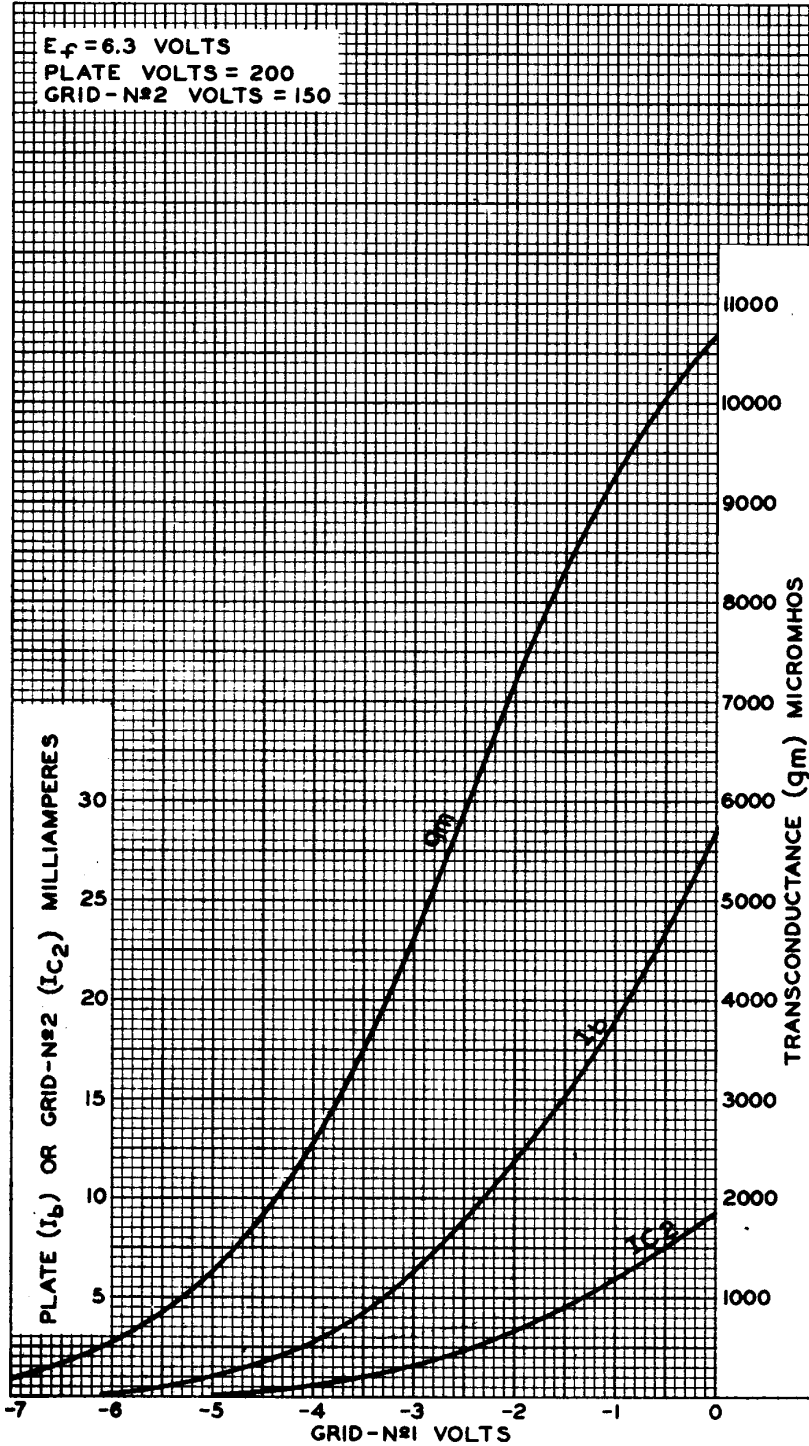
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AVERAGE CHARACTERISTICS
PENTODE UNIT



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